

EXPRESS MAIL LABEL NO. EV314046155US

DATED: 17 SEPTEMBER 2003

ATTORNEY DOCKET: NWAV 1002-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Inventor(s):
Kuo-Ching Liu

Application No. _____

Filed: 17 September 2003 (herewith)

Title: **Method and Apparatus for Cutting
Devices from Substrates**

Group Art Unit: not assigned
Examiner: not assigned

CUSTOMER NO. 22470

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56.

Enclosed with this statement is a Form PTO-SB/08. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. 609.

Also enclosed with this statement is a copy of each cited document as required by 37 C.F.R. 1.98.

If a written English-language translation of a non-English language document, or portion thereof, is within the possession, custody or control of, or is readily available to any individual designated in 1.56(c), a copy of the translation accompanies this statement, 37 C.F.R. 1.98(a)(3)(ii), and satisfies the requirement for a concise explanation of relevance, MPEP 609A(3).

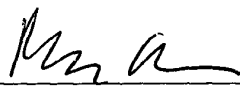
This statement should be considered under 37 C.F.R. 1.97(b) because it is being filed within three months of the filing date of an application other than a continued prosecution application under 37 C.F.R. 1.53(d).

Fee Authorization. The Commissioner is hereby authorized to charge underpayment of any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0869 (NWAV 1002-2). A duplicate copy of this authorization is enclosed.

Respectfully submitted,

HAYNES BEFFEL & WOLFELD LLP

Date: 16 Sept 03

By: 
Mark A. Haynes, Reg. No. 30,846

HAYNES BEFFEL & WOLFELD LLP
P.O. Box 366
Half Moon Bay, CA 94019
Telephone: (650) 712-0340
Facsimile: (650) 712-0263

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet		1	of	3	Application Number Filing Date First Named Inventor Group Art Unit Examiner Name Attorney Docket Number
					Herewith Kuo-Ching Liu NWAV 1002-2

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	3,626,141		Daly	12-07-1971	
	A2	3,814,895		Fredriksen	06-04-1974	
	A3	3,816,700		Weiner et al.	06-11-1974	
	A4	4,237,601		Woolhouse et al.	12-09-1980	
	A5	4,336,439		Sasnett et al.	06-22-1982	
	A6	4,543,464		Takeuchi	09-24-1985	
	A7	4,562,333		Taub et al.	12-31-1985	
	A8	4,664,739		Aurichio	05-12-1987	
	A9	4,906,011		Hiyamizu et al.	03-06-1990	
	A10	4,921,564		Moore	05-01-1990	
	A11	5,057,664		Johnson et al.	10-15-1991	
	A12	5,138,131		Nishikawa et al.	08-11-1992	
	A13	5,324,012		Aoyama et al.	06-28-1994	
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	A15	5,611,946		Leong et al.	03-18-1997	
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	A19	5,801,356		Richman	09-01-1998	
	A20	5,809,987		Wark et al.	09-22-1998	

FOREIGN PATENT DOCUMENTS								
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁸
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	B1		WO 00/75983		Kulicke & Soffa	12-14-2000		
	B2		EP 1137072		Matsushita Electric	09-26-2001		
	B3		JP 10064854		Hewlett Packard	03-06-1998		
	B4		JP 11224866		NGK Insulators	08-17-1999		
	B5		JP 2000004066		Nichia Chem Ind.	01-07-2000		
	B6		JP 2000196186		Fuji Electric Co.	07-14-2000		
	B7		JP 55151351		Mitsubishi Electric	11-25-1980		
	B8		JP 56006451		Mitsubishi Electric	01-23-1981		
	B9		JP 57066650		Toshiba Corp	04-22-1982		
	B10		JP 57081985		Toshiba Corp	05-22-1982		

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Application Number						
Filing Date		Herewith				
First Named Inventor		Kuo-Ching Liu				
Group Art Unit						
Examiner Name						
Attorney Docket Number		NWAV 1002-2				
Sheet	2	of	3			

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		Number	Kind Code ² (if known)			
	A21	5,811,751		Leong et al.	09-22-1998	
	A22	5,961,852		Rafia-Yuan et al.	10-05-1999	
	A23	5,963,364		Leong et al.	10-05-1999	
	A24	5,987,920		Bosman et al.	11-23-1999	
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	A26	6,057,525		Chang et al.	05-02-2000	
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	A28	6,121,118		Jin et al.	09-19-2000	
	A29	6,126,520		Jochim-Schmidt et al.	10-03-2000	
	A30	6,130,401		Yoo et al.	10-10-2000	
	A31	6,182,733		McReynolds	02-06-2001	
	A32	6,365,429		Kneissl et al.	04-02-2002	
	A33	6,413,839		Brown et al.	07-02-2002	
	A34	6,509,546		Egitto et al.	01-21-2003	
	A35	2002/0031899		Manor	03-14-2002	
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	A37					
	A38					
	A39					
	A40					

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	B11		JP 58044738		Toshiba Corp	03-15-1983		
	B12		JP 58044739		Toshiba Corp	03-15-1983		
	B13		JP 58068946		Toshiba Corp	04-25-1983		
	B14							
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number		
			Filing Date	Herewith	
			First Named Inventor	Kuo-Ching Liu	
			Group Art Unit		
			Examiner Name		
Sheet	3	of	3	Attorney Docket Number	NWAV 1002-2

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	"Porous Tungsten & Molybdenum," available at http://www.spectramat.com/pormotun.html .	
	C2	SOILMOISTURE EQUIPMENT CORP., Catalog, available at http://www.soilmoisture.com/ceramics.html .	
	C3	SOILMOISTURE, "Porous Ceramics Catalog," available at http://www.soilmoisture.com .	
	C4	Spectra-Physics Business Units: Products "Navigator II" (10-07-2002), 2 pages, see http://www.splasers.com/products/oem_products/fcb_yhp_series.html .	
	C5	Spectra-Physics: Products "Navigator I" (10-07-2002), 2 pages, see http://www.splasers.com/products/oem_products/navigator1.html .	
	C6	Furukawa Electric, "What is UV-TAPES?" (05-23-2002), 2 pages, see http://www.furukawa.co.jp/uvtape/en/whatis.htm .	
	C7	Furukawa Electric product brochure, "UV-TAPES FOR SEMICONDUCTOR PROCESSING," 8 pages.	
	C8	OSTENDORF, A., et al., "Material Processing Applications for Diode Pumped Solid State Lasers," Lambda Highlights 57, Lambda Physik Pub. (May 2000), 8 pages.	
	C9	VILLENEUVE, TIM, "Nanosecond pulsed lasers improve micro-machining," DESIGNNEWS Semiconductor Manufacturing (04 June 2001) 33-35.	

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